IMPORTANT FOR FUTURE REFERENCE

Please complete this information and retain this manual for the life of the equipment:

Model #: _____

Serial #: _____

Date Purchased: _____

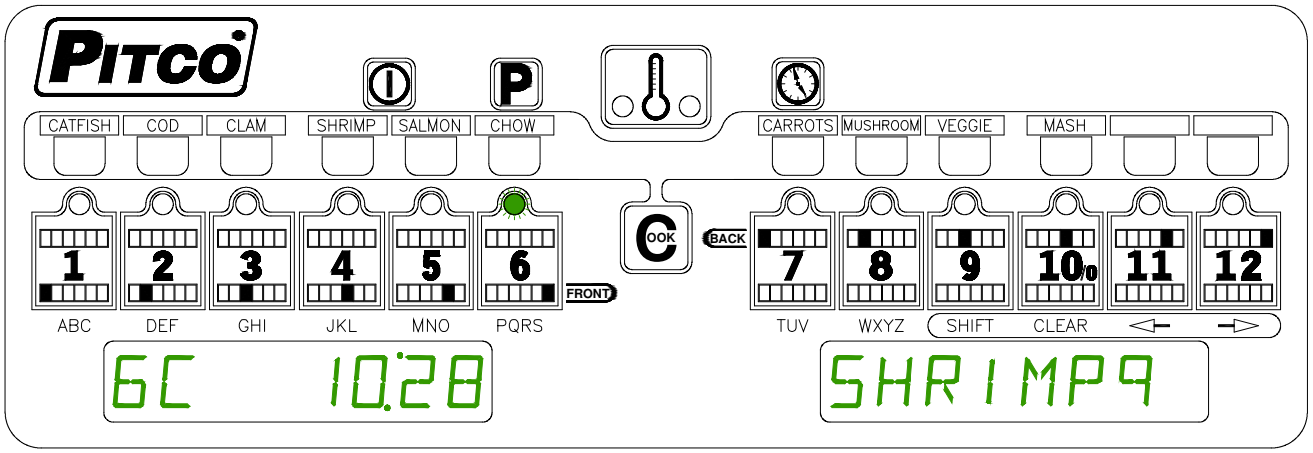
ENGLISH

Operations Manual

for

Solstice I12 Water Cooker

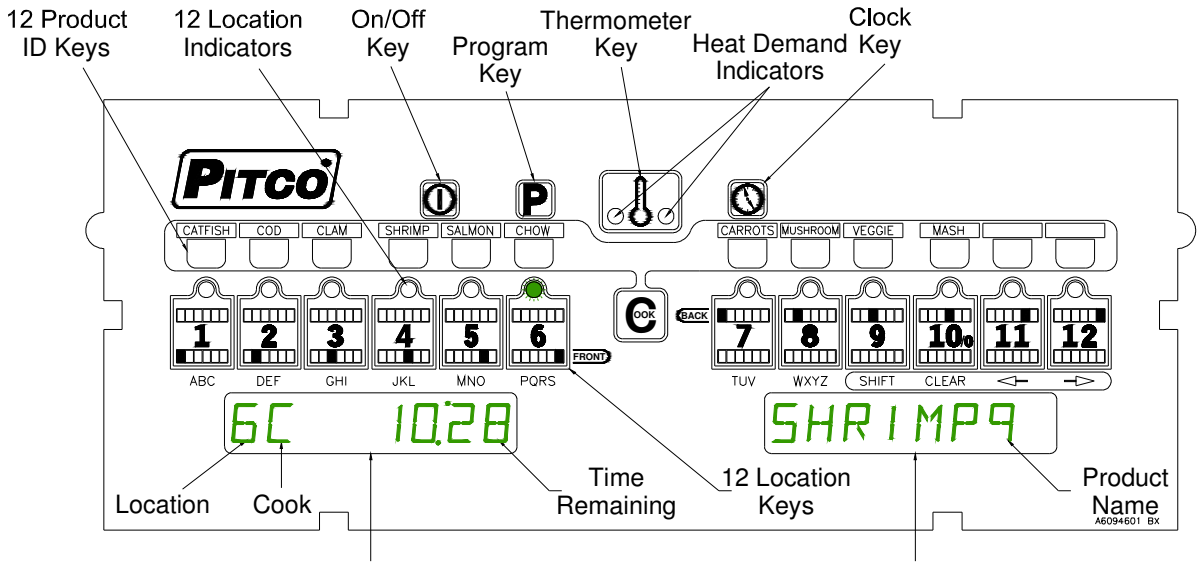
Part #60153301



This manual details operations and adjustments of the Solstice I12 Water Cooker control developed for Pitco products. This microprocessor control offers the latest cooking technology, including temperature and time compensation that requires no user adjustments for consistently cooked product. Other features include drain valve interlock, faulty probe detection, beeper volume, and cook temperature displays. Each product key may be programmed with cook, shake and hold times, and set to display product names to keep pace with changing menus over time. This manual reveals all adjustments that can be made by keyboard entry for the Store Manager, including passwords.

The target audience for this manual is the Store Manager.

1 Key Locations and Functions:



Displays show current operation. Throughout this text, a left or right only display reference will be printed as [SHRIMP9]. When both left and right displays should be interpreted together, this text will show them as [6C 10:28] [SHRIMP9].

1.1 To turn the appliance ON:

If power is applied to the appliance, the displays will show [OFF]. Press the [I/O] key. Displays will show one of the normal displays: [HEATING], [READY], or an alternating display when filling: [FILLING]<>[HEATING]. Some messages may show in both left and right displays. Wait for the appliance to heat up to the [READY] condition before cooking.

1.2 To turn the appliance OFF:

Press the [I/O] key. Display will momentarily show the software version number and then display [OFF].

1.3 To start a Cook:

When the display is showing [READY], the appliance has reached set temperature and is ready to cook. To start a cook, press the Cook key, followed by the Product key SHRIMP. The display will show [<name>] [RACK --], and the location indicators will light to show empty rack locations. Press any key that is lit 6 and place the bag in that rack location. The indicator above the key will flash to indicate the cook timer is running.

In the example above, the cook key was pressed, then the shrimp key SHRIMP, followed by the location 6 key 6. Displays then shows that SHRIMP is cooking with 10 minutes and 28 seconds remaining at location 6; [6C 10:28] [SHRIMP9].

Multiple cooks may run together. While cooks are running, the displays will always show the cook with the least time remaining. Longer running cooks will flash their indicators at a slower rate. Time remaining on any location may be checked by momentarily pressing , and a key with a flashing

light. When all cooks are done, Hold times will be displayed in similar fashion, that is, least time remaining.

1.4 To cancel a Cook or Hold:

To cancel a running cook or hold, press and hold any key with a lit indicator. Display will momentarily display time and product, and then prompt for cancellation with the display of [2C mm:ss] [CANCEL]. Release the button immediately if you do not wish to cancel this product. Continuing to hold the button will cancel the timer.

If no other cooks or hold times are running, controller displays will return to [READY] or [HEATING].

1.5 To check Actual and Set temperatures:

To view the actual vat temperature, press the thermometer key  .

The display will show [**ACT** tttF] or [**ACT** tttC], where ttt is the current vat temperature. After a few moments, the display will return to [nnC hh:mm] [product name] or [nnC mm:ss] [product name] when cooks or holds are still running. If no cooks or holds are running, then [READY] or [HEATING] is displayed.

To view the set temperature, press the thermometer key twice  .

The display will show [**SET** tttF] or [**SET** tttC], where ttt is the current set temperature. After a few moments, the display will return to [nnC hh:mm] [product name] or [nnC mm:ss] [product name] when cooks or holds are still running. If no cooks or holds are running, then [READY] or [HEATING] is displayed.

1.6 To View Current Settings for a Product Key:

To view the current settings for any product key, press the clock key  , followed by the desired product key 

.

The display will momentarily show the settings for Cook, Shake, Hold, and Hold Pre-Alarm for this product. The display will show the current settings for times in either [mm:ss, or h.mm:ss] for this product key. After a few moments, the display will return to [nnC h.h:mm] [product name] or [nnH mm:ss] [product name] when cooks or holds are still running.

If no cooks are running, then [READY] or [HEATING] is displayed.

1.6.1 Typical displays using the above key 4 as an example:

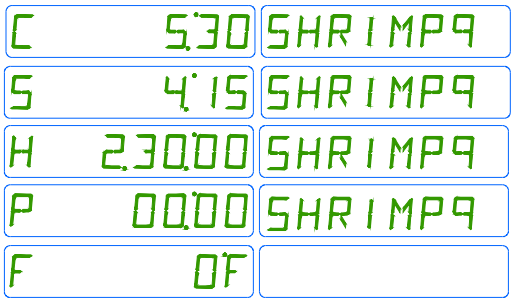
Key 4 has been named SHRIMP9. **Cook** time is set for 5 minutes and 30 seconds.

Shake time is set for 4 minutes and 15 seconds. Any time set here is an alarm before the end of the Cook.

Hold time for this product is set for 2 hours, 30 minutes.

Hold Pre-alarm is disabled by a setting of zero. Any time set here is an alarm before the end of the Hold period.

Food Safe Temperature Limit is disabled by a setting of zero, the factory default. Temperatures set here define the lower safe cooking temperature for a product key.



In a few moments, the display will return to [READY].

2 To Enter Programming Level 1 (for the Store Manager):

Note: The factory default setting for this control does not require an operator password to be entered. However, the operator password requirement and value may be changed in section 3.2. Both examples are shown in the next steps. Entry of a password when NOT required will not interfere with the programming process.

With no cooks or holds timers running, displays will show one of the following displays: [HEATING] or [READY]. Press the P key.

If displays shows:	If display shows:
PASS---- PASSWORD Level 1 & 2 Password Enter password 6 6 8 4 using the location keys as a numeric keypad for entry. Display will show PROGRAM .	PROGRAM ; you do not need to enter a password.

From this [PROGRAM] display, continue with this section or go to sections 3 or 4.

2.1 To Set Cook Temperature:

Press the thermometer key.

The display will show [SET tttF] [TEMP] or [SET tttC] [TEMP], where "ttt" is the temperature setting. Use the location keys for numeric entry to adjust the current setting. Press the P key to save setting. The display now shows [PROGRAM]. To exit here, press P again, or continue.

2.2 To Change a Product Key–Cook, Shake, Hold and Hold Pre-Alarm Times, and Name:

Cook, Shake, Hold and Hold Pre-alarm times, and key names are set in the following steps. With display showing [PROGRAM], continue with the following section for each product key to change. Follow these steps for each product key.

2.2.1 Cook Time

Cook Time may be set for each product key. Press the key; display will show [SELECT] [PRODUCT]. Press the desired product key to change.

The display is now showing [C hh.mm:ss] [NAME nn] where "nn" is the default key number, "C" means Cook, and "hh.mm:ss" is hour, minutes and seconds. Use the location keys for numeric entry to adjust the current setting. Press the key to save Cook Time and continue with Shake Time for this product key.

Note: To deactivate any product key, enter a zero value for Cook Time.

2.2.2 Shake Time

Shake Time is an alarm that sounds during Cook Time to prompt operators to shake the basket or warn that Cook Time is about to end. Default for this value is zero, meaning the Shake Time is inactive. To use Shake Time, time value must be a non-zero value, and must be set to a value less than Cook Time.

Display shows [S hh.mm:ss] [NAME nn] where "nn" is the default key number, "S" means Shake, hh.mm:ss" is hour, minutes and seconds.

Use location keys for numeric entry to adjust the current setting. Press the  key to save Shake Time and continue with Hold Time for this product key. *A display of [TOO HIGH] indicates an entry greater than Cook Time. Press the [10/0] key to clear entry, and re-enter a valid number.*

Note: Cook Time minus the time from the beginning of the cook = Shake value to enter. Example: With a 3:00 cook time and a desired shake alarm at 1 minute into the cook, the value you enter would be 2:00 minutes. 3:00 – 1:00 = 2:00.

2.2.3 Hold Time

Cooked product may stand in holding bins for a period of time. This timer produces an alarm to inform operators to discard old product and start a new cook. The Default for this value is zero, meaning the Hold Time is inactive.

Display is showing [H hh.mm:ss] [Name nn], where "nn" is the default key number, "H" means HOLD, and "h.mm:ss" is minutes and seconds. Use the location keys for numeric entry to adjust the current setting. Press the  key to save Hold Time and continue with Hold Pre-Alarm for this product key.

2.2.4 Hold Pre-Alarm

Hold Pre-Alarm is a timer setting that is used to warn operators that the Hold Time is about to expire. To use Hold Pre-Alarm, time value must be a non-zero value, and must be set to a value less than Hold Time. The default value is zero, meaning the Hold Pre-Alarm is inactive.

Display is showing [P hh.mm:ss] [Name nn] where "nn" is the default key number, P means Pre-Alarm, and "hh.mm:ss" is minutes and seconds.

Use the location keys for numeric entry to adjust the current setting.

Press the  key to save hold time and continue setup for this product key. *A display of [TOO HIGH] indicates an entry greater than Hold Time. Press the [10/0] key to clear entry, and re-enter a valid number.*

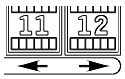
Note: Hold Time minus the time from the beginning of the cook = Hold value to enter. Example: With a 55:00 hold time and a desired alarm at 35 minutes into the hold period, the value you enter would be 20:00 minutes. 55:00 – 35:00 = 20:00.

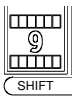
The prior four steps in table form:

	To Set a Product Key for Cook, Shake, Hold, HPA times, and Food Safe temperature		
	Press	[Clock]	
	Display shows	[SELECT] [PRODUCT]	
	Press	the desired product [Key#]	
Cook Time	Display shows	[C hh.mm:ss] [NAME nn]	C is Cook, nn is key
	Enter	enter/change desired Cook time.	
	Display shows	[C hh.mm:ss] [NAME nn]	
	Press	[Clock]	
Shake Time	Display shows	[S hh.mm:ss] [NAME nn]	S is Shake, nn is key
	Enter	enter/change desired Shake time.	
	Display shows	[S hh.mm:ss] [NAME nn]	
	Press	[Clock]	
Hold Time	Display shows	[H hh.mm:ss] [NAME nn]	H is Hold, nn is key
	Enter	enter/change desired Hold time.	
	Display shows	[H hh.mm:ss] [NAME nn]	
	Press	[Clock]	P is Pre-alarm, nn is key
PreAlarm Time	Display shows	[H hh.mm:ss] [NAME nn]	
	Enter	enter/change desired HPA time.	
	Display shows	[H hh.mm:ss] [NAME nn]	

2.2.5 Product Key Naming:

Display shows [P hh.mm:ss] [NAME nn] from the previous step. The first character is flashing to show the cursor location. *If the product name currently displayed is correct, press the*  *key.*

To change this character, press the key containing the letter. Press again, if needed, to get other letters listed under the key. When the correct letter shows in the display, press the right arrow key  to move the cursor to the next character position. Use the left and right editing arrow keys  to move the flashing cursor. When naming is complete press the  key. Edit mistakes with the left/right arrow key and the CLEAR key. To clear a character, press the CLEAR key 

. This is also used to create a blank space character. Use the SHIFT key 

to enter a number into a character space. When editing is complete, press the  key to save name.

Example: Change the factory default name for key4 to SHRIMP9:

	Press	[Clock]	**Program key 4 for SHRIMP 9**
Enter product NAME on this key	Display shows	[KEY 4] [NAME 4]	N is flashing at cursor location
	Press key (PQRS) four times until S shows	[KEY 4] [SAME 4]	S is flashing
	Press --> move to next character	[KEY 4] [SAME 4]	A is flashing
	Press key (GHI) 2 times until H shows	[KEY 4] [SHME 4]	H is flashing
	Press --> move to next character	[KEY 4] [SHME 4]	M is flashing
	Press key (PQRS) three times	[KEY 4] [SHRE 4]	R is flashing
	Press --> move to next character	[KEY 4] [SHRE 4]	E is flashing
	Press key (GHI) three	[KEY 4] [SHRI 4]	I is flashing
	Press --> move to next character	[KEY 4] [SHRI-4]	"-" is flashing. "-" used as a place holder for blanks.
	Press key (MNO) one time	[KEY 4] [SHRIM4]	M is flashing
	Press --> move to next character	[KEY 4] [SHRIM4]	4 is flashing
	Press CLR to clear character (example)	[KEY 4] [SHRIM-]	"-" is flashing. "-" used as a place holder for blanks.
	Press key key (PQRS)	[KEY 4] [SHRIMP]	P is flashing
	Press --> move to next character	[KEY 4] [SHRIMP-]	"-" is flashing. "-" used as a place holder for blanks.
	Press --> move to next character	[KEY 4] [SHRIMP -]	creates a blank space character
	Press SHIFT key, then key 9	[KEY 4] [SHRIMP 9]	Entering a number with the shift key. 9 is flashing.
	Press Clock key	[KEY 4] [SHRIMP 9] (no flashing cursor)	Edit mistakes with -->, <--, and CLEAR keys
	Press Clock key again	[KEY 4] [SHRIMP 9]	Save this product label and continue.

--> Forward space the flashing cursor.
<-- Back space the flashing cursor.
CLR Delete the current character insert

2.3 Set the Food Safe temperature for this key:

A temperature value entered here defines the food safe temperature for this product key. Entry must also be less than Set temperature. When the vat temperature goes below this temperature, the cook timer halts. When the temperature is restored, the cook timer resumes. A zero value will disable this feature. *The factory default setting is 0°F, or inactive.*

Set Food Safe Temperature	Display shows	[SAFE ttt°F] [SHRIMP 9]	Enter the Food Safe Temperature for this product key
	Enter	enter/change SAFE temp. 0°F= off.	
	Press	[Clock]	
	Display shows	[SELECT] [TIME]	continue with other keys
Exit	Press	[P] to exit.	or exit
	Display shows	[PROGRAM] [<blank>]	

When display returns to [SELECT] [TIME]. Repeat steps from section 2.2.1 to make changes to any other product keys *or continue*.

2.4 To Exit Level 1 programming:

Display shows [SELECT] [PRODUCT].

Press the P key.

Display shows [PROGRAM]. Continue to section 3 to change options, or, exit here in the next step.

To exit Level 1 programming, press the P key again.

Displays will show [HEATING],or [READY].

3 To Enter Programming Level 2 (for the Store Manager):

The display must show [PROGRAM] from section 2 to change these options. When the location key 10 is pressed, the display will show [SELECT] [OPTIONS]. Indicator lights above location keys will illuminate to represent options that may be changed. Each option listed below uses the location key 10 to toggle or scroll through available choices in the display. When the correct value is displayed, press the P key to save choice. The display will again return to [PROGRAM] for another option selection.

3.1 Fahrenheit or Celsius Display:

The Controller will display temperatures in the Fahrenheit or Celsius scales. The default scale is °F.

With display showing [PROGRAM], press the location key 10.

Display shows [SELECT] [OPTIONS].

Press location key 1, display shows [DEGREE n] [F OR C], where “n” is the current setting. 1

Use the product key  to scroll through choices (F or C). Press  key to save choice.

Display shows [PROGRAM].

3.2 To Change Password or Requirement

With factory settings, an operator password is not required to enter programming Levels 1, 2, and 3. The password may be activated or changed in this section.

With display showing [PROGRAM], press the location key  .

The display will show [SELECT] [OPTIONS].

Press location key 2, display shows [SET PASS] [NEW PASS].

Use the location key  to scroll through choices [NO PASS] or [PASS REQ]. Press  key to save choice.

If [NO PASS] is selected Display returns to [PROGRAM].

If [PASS REQ] is selected above, display will show [PASSnnnn] [NEW PASS] to prompt for new password. Displayed value "nnnn" is the current password. Use the location keys for numeric entry to change password. Press  key to save choice. Display shows [PROGRAM].

Note: The factory default password (6684) will always work even if a different password is selected above.

3.3 Beeper Volume and Tone:

Volume and Tone of the beeper alarm may be changed in this section. Volume ranges are 1,2 and 3, where 3 is the loudest setting. Later model controls have an additional selection for tones.

With display showing [PROGRAM], press the product key  . Display will show [SELECT] [OPTIONS].

Press location key 3, display shows [VOLUME n] [BEEPER].

Use the product key  to scroll through choices (n= 1,2,3, or T). Beeper volume will change as each selection is made. Press  key to save choice.

If "T" is selected above, an additional display is shown, [TONE n] [BEEPER]. Use the product key  to scroll through choices (n= 1,2,3). Beeper tone will change as each selection is made.

Press  key to save choice. Display shows [PROGRAM].

3.4 Language Selection:

With display showing [PROGRAM], press the location key  .

Display shows [SELECT] [OPTIONS].

Press product key 4, display shows [ENGLISH] [LANGUAGE].

Use the location key  to scroll through choices (ENGLISH, ESPANOL, FRANCAIS, DEUTSCH, HOLLAND).

Press  key to save choice. Display shows [PROGRAM].

3.5 Recovery Test Value:

This controller maintains a record of heat up times for the appliance. A poorly running appliance will have increased recovery times stored in this display. There is no selection done here, just the display of recovery time values.

With display showing [PROGRAM], press the product key  .

Display shows [SELECT] [OPTIONS].

Press product key 6; display will show [RECOVERY] [TEST].

Press the product key  . Display will show [FnnnLyyy], where nnn is the factory recovery value, and yyy is the last warm up recovery value.

After recording these values, press the  key. Display returns to [PROGRAM].

3.6 Control or Timer:

With display showing [PROGRAM], press the product key  . Display shows [SELECT] [OPTIONS].

Press product key 7; display will show [CONTROL].

Use the product key  to scroll through choices (Control, Timer).

Press  key to save choice. Display shows [PROGRAM].

Note: If timer is selected, heat control outputs are disabled, leaving only the timer functions active. For normal appliance operation, this setting should be left on the "Control" setting.

4 Other Displays:

Open probe detection is standard on all Pitco controls. If probe is detected open, normal heating and cooking activities are suspended.

This display warns operators that the vat temperature has exceeded set temperature by +20°F (+11°C), or an absolute maximum of 240°F (156°C). This display does not show the status of the mechanical high limit switch.

This message indicates that the drain valve has been opened. The vat is assumed to be empty by the controller. Normal heat control activities are suspended. To restore to normal operation, close the drain valve. Display will show [TURN OFF].

Turn controller off, and refill the vat. Continue with normal operations at section 1.

This message indicates that the heating system failed to respond. Typically, the high temperature limit switch has tripped and is in need of resetting. On gas fired appliances, this message will display if the pilot fails to light or is detected marginal by the ignition module.

This message indicates a shorted probe. If probe is detected as a short circuit, normal heating and cooking activities are suspended.

This message appears when the tank fails to fill within a set period of time. Check that the water supply line is turned ON. To restore to normal operation, turn the control OFF then ON again. While the tank is (re)filling, heat is disabled.

In the event of problems with or questions about your order, please contact the Pitco Frialator factory at (800) 258-3708 US and Canada only (603) 225-6684 World Wide	In the event of problems with or questions about your equipment, please contact the Pitco Frialator Authorized Service and Parts representative (ASAP) covering your area, or contact Pitco at the numbers listed to the left.

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